AMENDMENTS TO THE SPECIFICATION

Please amend section [0061] of the specification as indicated below with insertions underlined (e.g., insertion), and deletions struckthrough or in double brackets (e.g., ~~deletion~~ or [[deletion]]):

[0061] FIG. **13A** illustrates a wavelength compensation relationship **1300** having a look-up table **1310**, wavelength-dependent calibration data **1320**, and a wavelength determination function **1330**. The wavelength compensation relationship **1300** advantageously changes sensor wavelength to generate a wavelength-compensated physiological measurement output **1308**. The look-up table **1310** has a spectral characteristic input **1302** and generates a physiological measurement output **1308**~~**1318**~~ utilizing the wavelength-dependent calibration data **1320**. The wavelength determination function **1330** has parameter 1304~~**1332**~~ inputs and, in one embodiment, a feedback input of the physiological measurement **1308**, and provides a sensor wavelength selection output **1338**. The wavelength selection output **1338** provides a calibration data **1320** input for selecting wavelength-dependent portions of the calibration data **1320**. As above, the look-up table **1310** and/or the calibration data **1320** may be replaced by or combined with mathematical formulas or algorithms. The wavelength control output **1338** is a feedback path to a controller **669** (FIG. **6**) and/or drivers **662** (FIG. **6**), for example, so as to modify the wavelength of a multiple-wavelength sensor **610** (FIG. **6**). FIG. **13B**, below, illustrates one advantageous pulse oximeter embodiment of the wavelength compensation relationship **1300**.